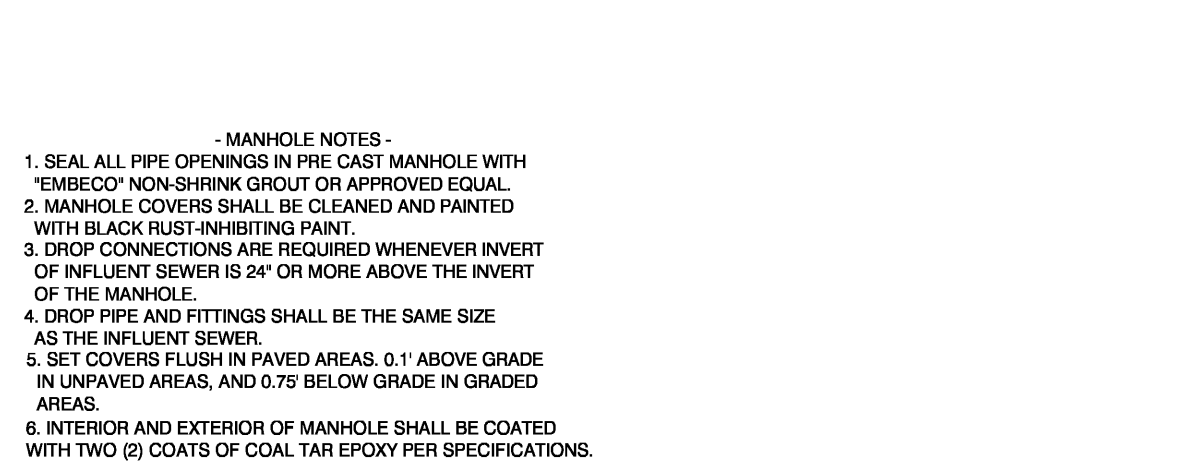
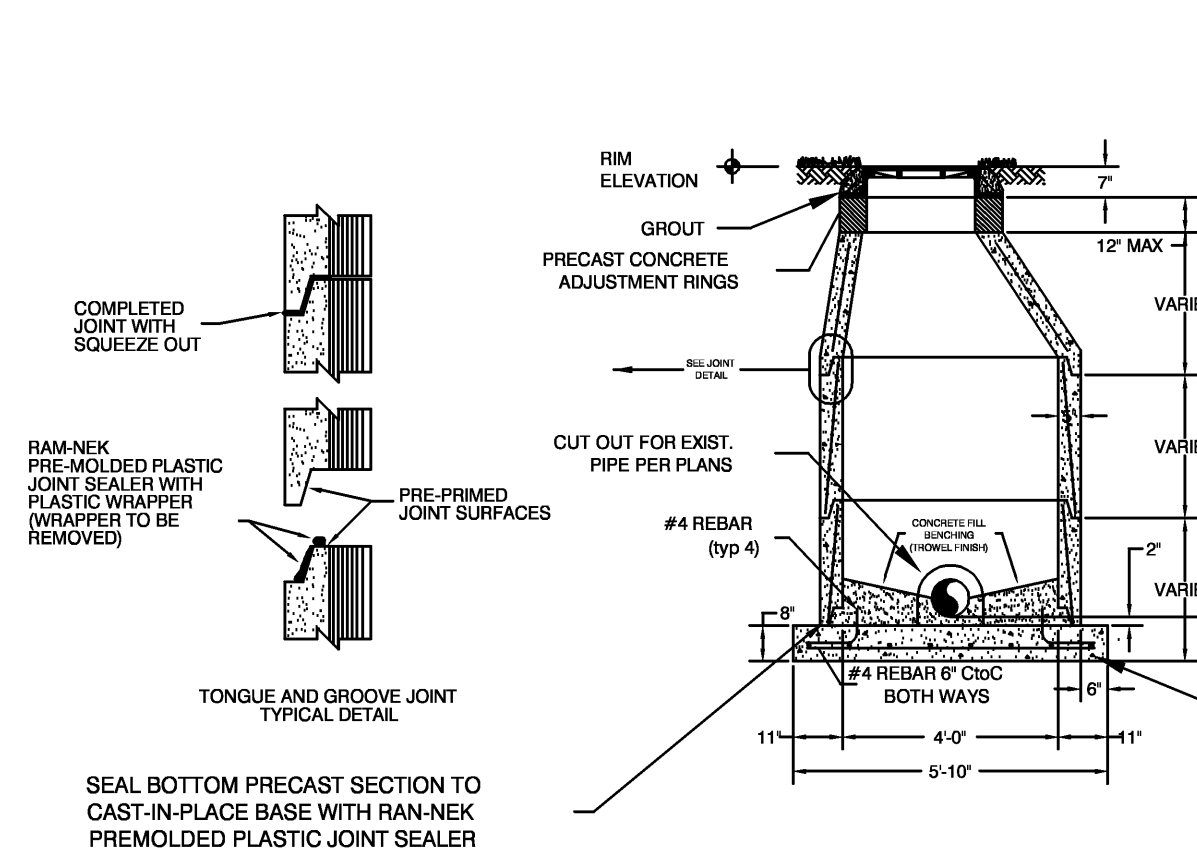
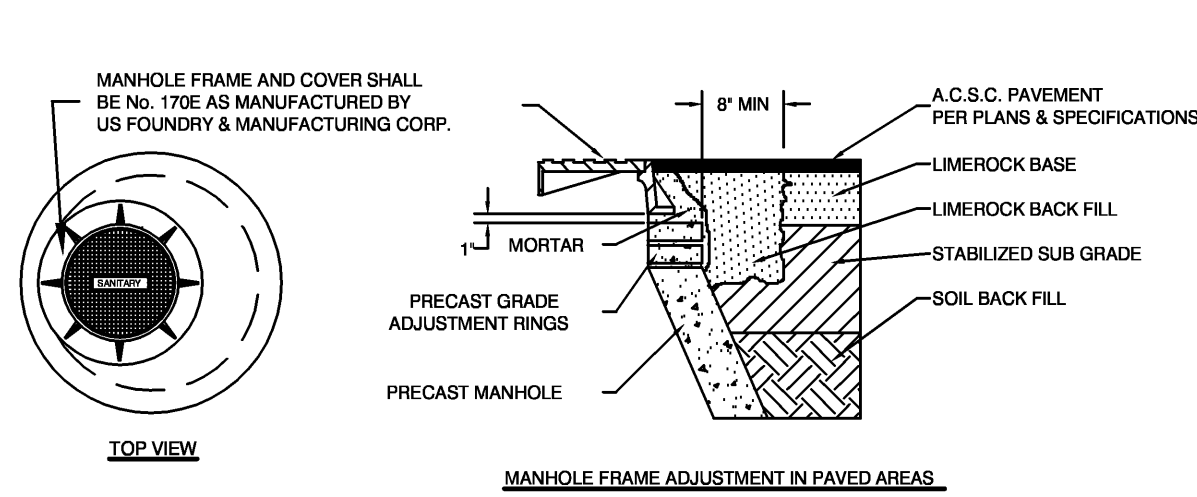
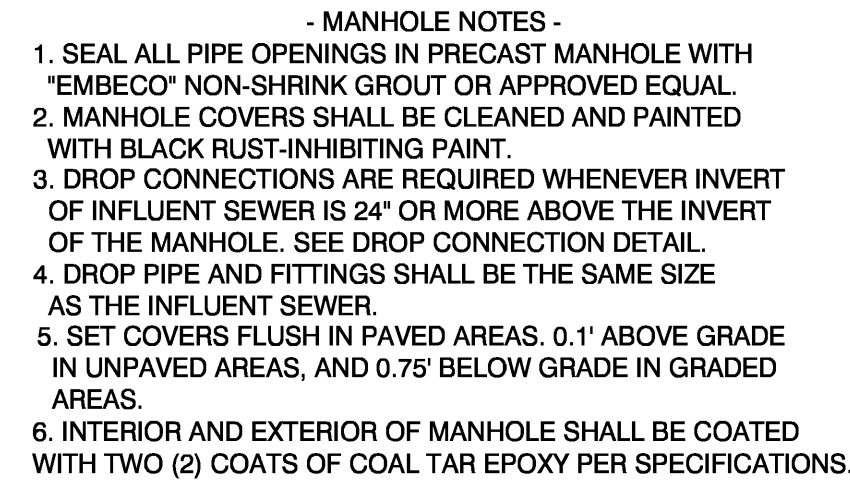
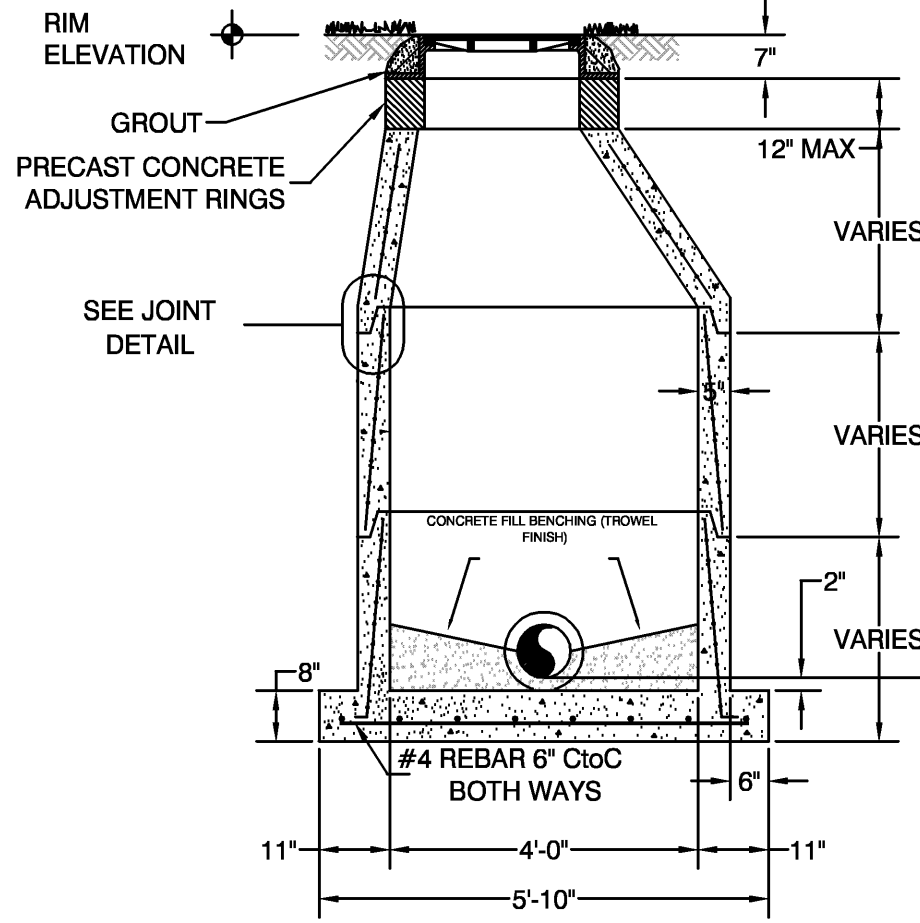
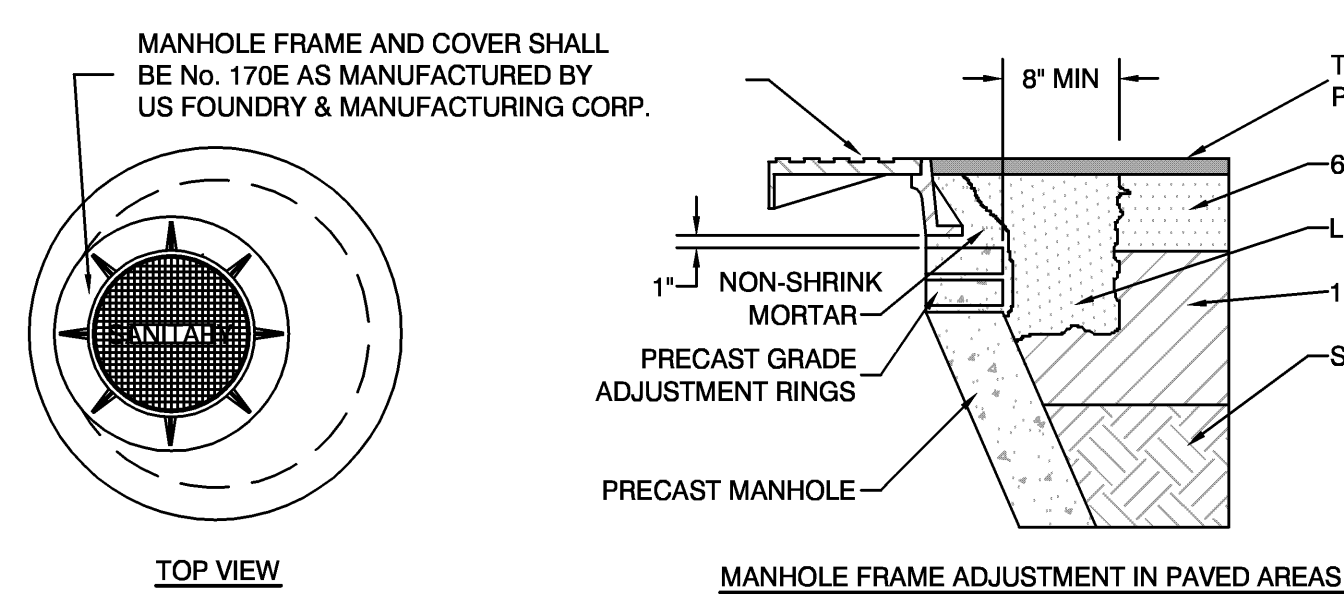


**SANITARY SEWER
SINGLE SERVICE DETAIL**



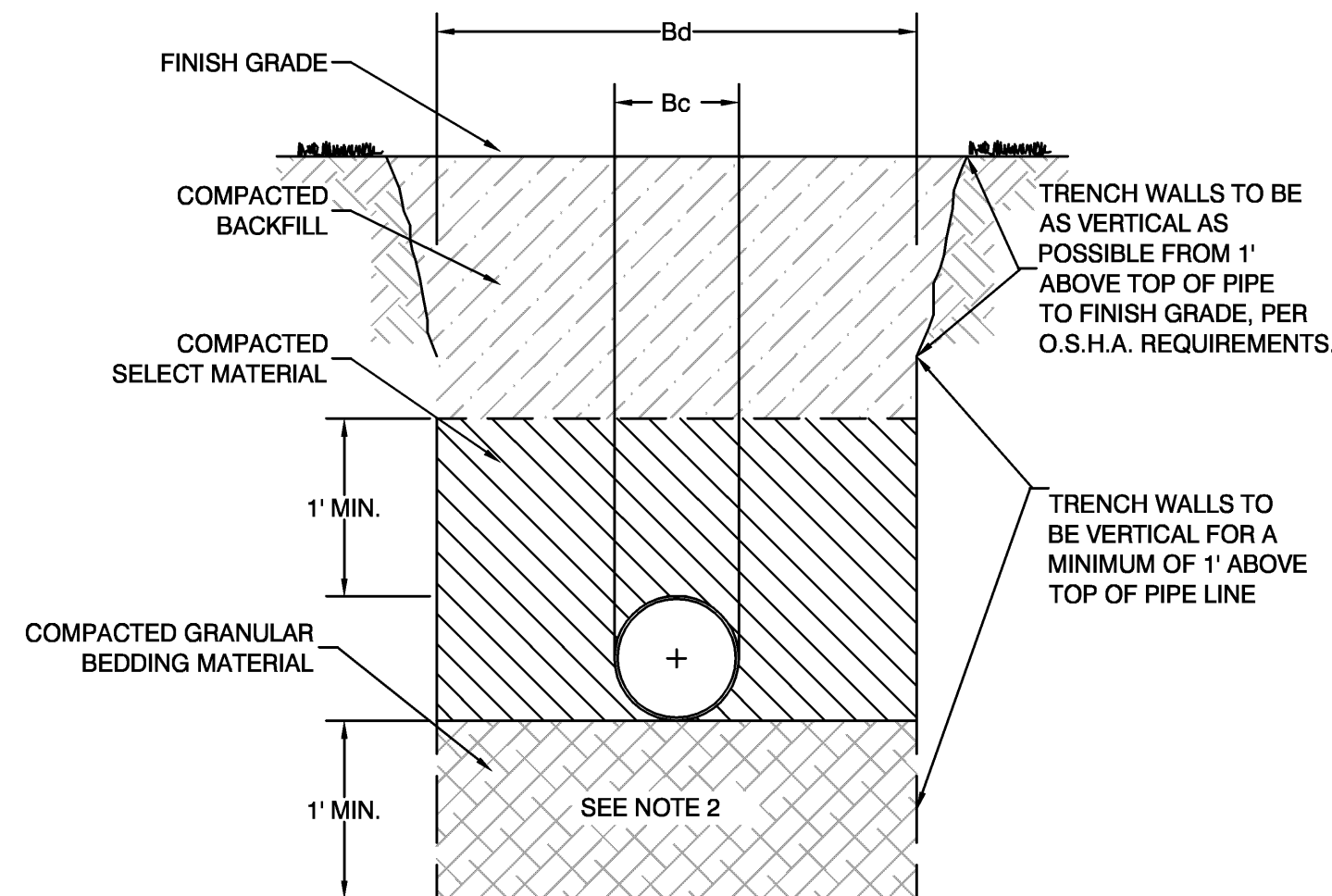
SANITARY PRECAST "DOGHOUSE" MANHOLE DETAIL



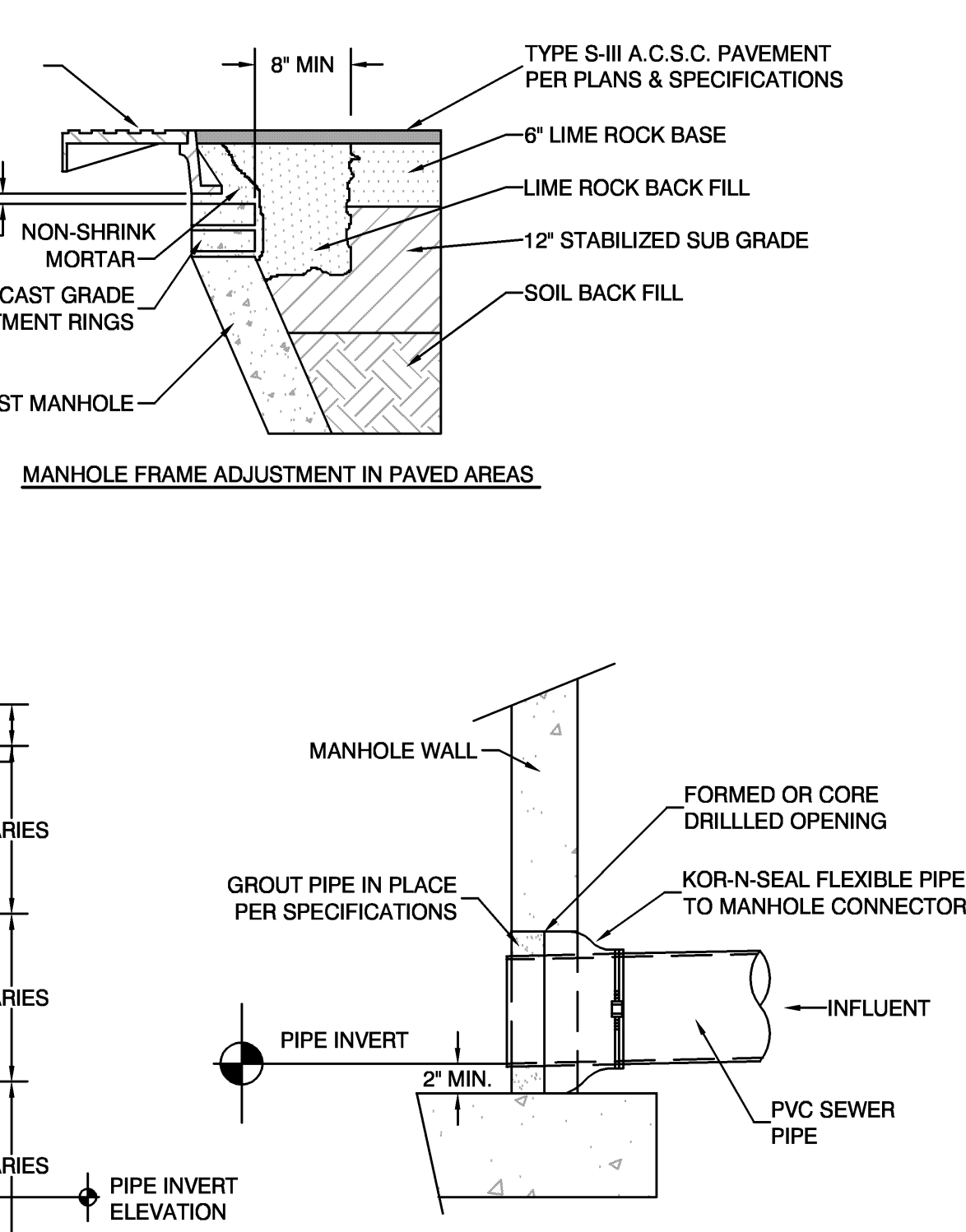
- ALTERNATE-CAST MANHOLE TOPS**
1. APPROVE CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATE.
 2. APPROVED FLAT SLAB TOP MAY BE USED AS AN ALTERNATE.

NOTES: FOR BEDDING AND TRENCHING

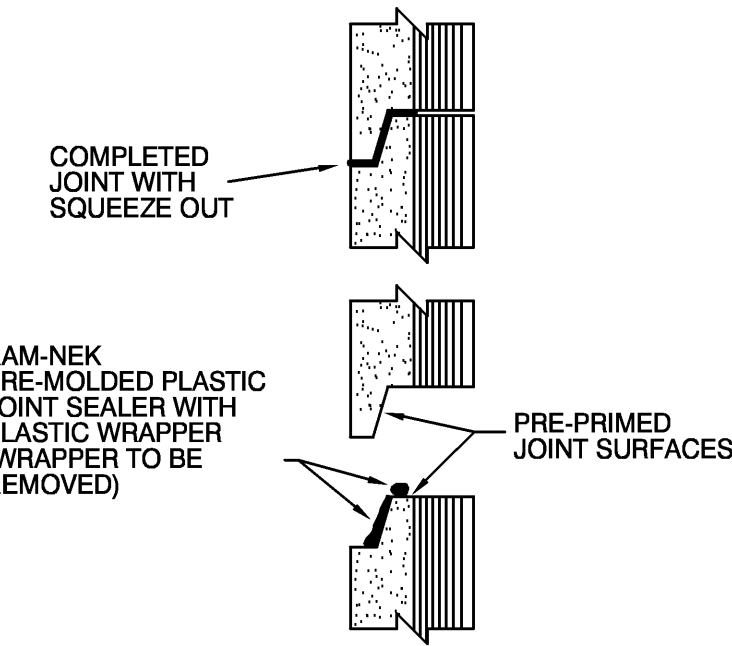
1. Dimension Bc = Pipe O.D.
Dimension Bd = Trench Width at Top of Pipe
Maximum Bd = Bc + 30"
Minimum Bd = Maximum Dimension of Bell + 8" (Unsheeted Trench)
2. DEPTH FOR REMOVAL FOR UNSUITABLE MATERIAL SHALL BE AS REQUIRED TO REACH SUITABLE FOUNDATION. FOR ROCK OR OTHER NON-CUSHIONING MATERIAL, DEPTH SHALL BE 12" BELOW BOTTOM OF UTILITY.
3. ALL BACKFILL AND SELECT MATERIAL UNDER ALL ROADWAYS, DRIVES (INCLUDING DIRT DRIVES), AND PARKING AREAS SHALL BE COMPACTED TO 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. (AASHTO T-180). BACKFILL AND SELECT MATERIAL UNDER ALL OTHER AREAS SHALL BE COMPACTED AS FOLLOWS: FROM BOTTOM OF TRENCH TO 12" ABOVE TOP OF PIPE - 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T-180). FROM 12" ABOVE TOP OF PIPE TO TOP OF BACKFILL - 90% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T-180)



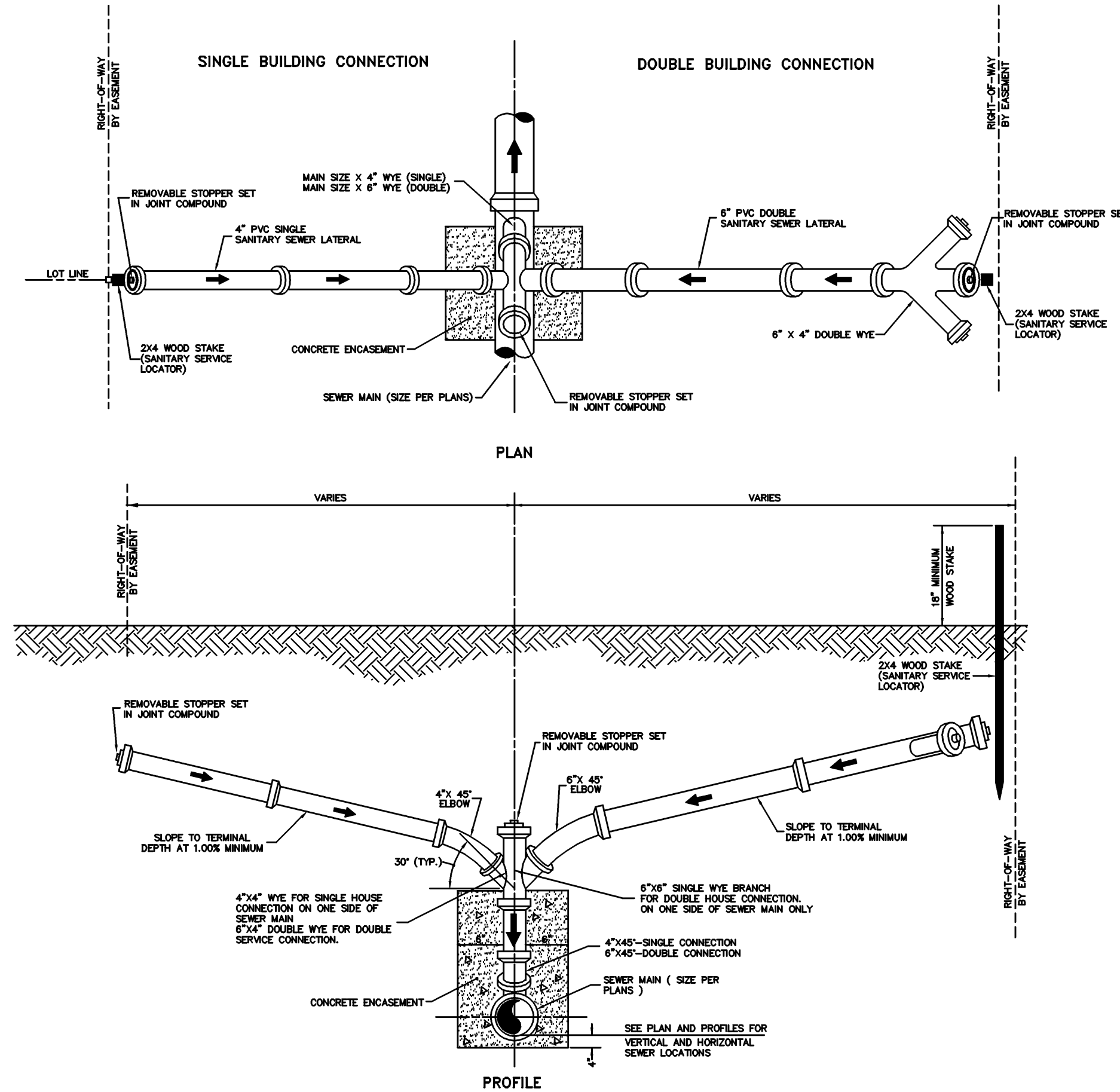
STANDARD PIPE BEDDING DETAIL



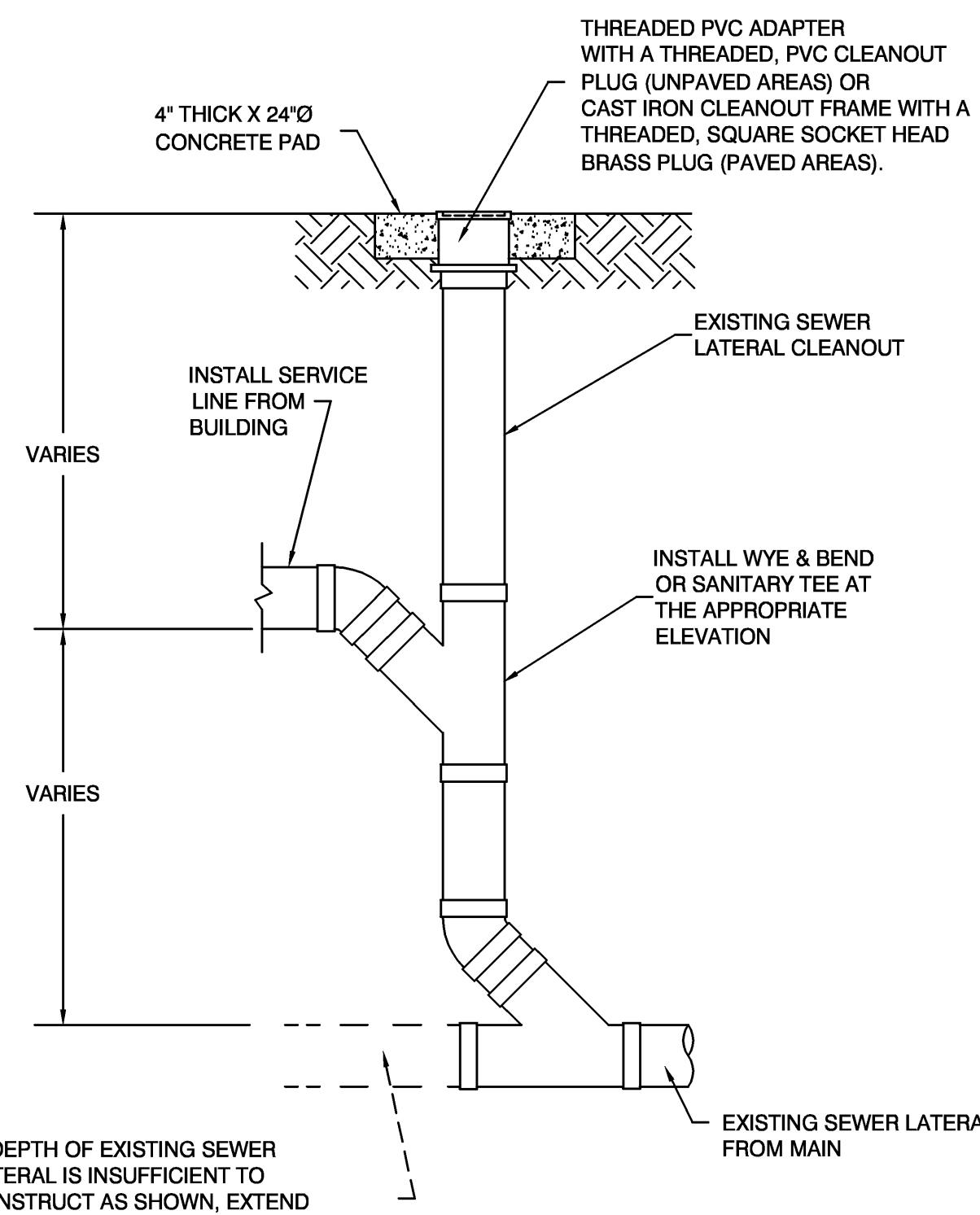
**PIPE CONNECTION TO PRECAST
SANITARY MANHOLE**



**TONGUE AND GROOVE JOINT
TYPICAL DETAIL**

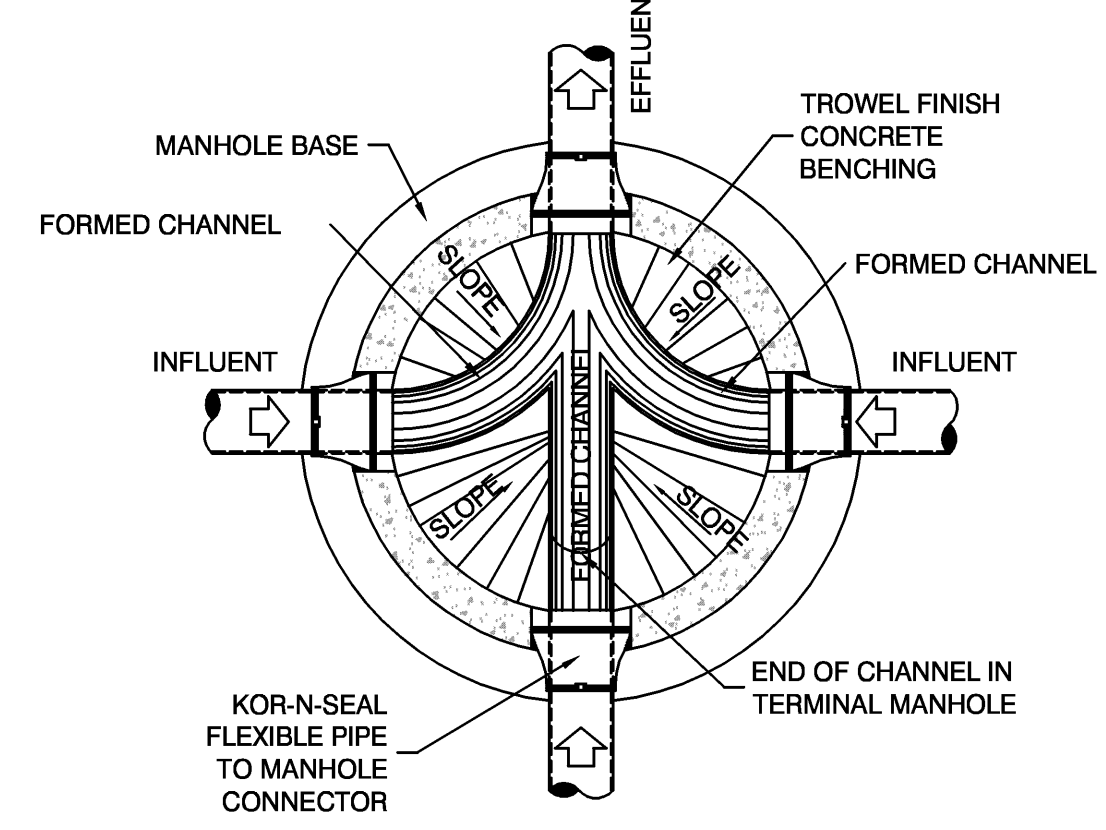


CHIMNEY CONNECTION



**CONNECTION TO EXISTING
SEWER LATERAL DETAIL**

**SANITARY SEWER
MANHOLE DETAIL**



TYPICAL INVERT DETAIL

BY	
REVISIONS	
DATE	
FARNER BARLEY AND ASSOCIATES, INC. ENGINEERS, SURVEYORS, PLANNERS Certificate of Authorization Number: 4709 4450 N.E. 83rd Road o Midwood, Florida 34785 o (352) 753-3114	
THE OAKS AT 138TH SUMTER COUNTY FLORIDA SANITARY SEWER DETAILS	
DATE	07-07-09
DRAWN BY	DLB
CHKD BY	JAH
FILE NAME	SANITARY
JOB NO.	065146.0004
SHT. 12 OF 13	